AV Phoneline Ethernet Bridge

User's Guide

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NOTE: This equipment has been tested and found to comply with the limits for a Class B information technology equipment. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the end user is advised to take adequate measures.

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1 Introduction

1.1 Overview

The *Corinex AV Phoneline Ethernet Bridge* is a network interface adapter using the telephone cables in premises as a medium for communication. After successful installation, the indoor Phoneline network behaves like a traditional LAN for computers. The *Corinex AV Phoneline Ethernet Bridge* supports up to 128 Mbps network speed.

The product keeps network maintenance cost low and eliminates usage barriers while there is no need for additional wiring. It is highly integrated and requires no external electronic components, except the power supply.

1.2 About this Manual

This Owner‘s Manual is intended to provide sufficient information to help you understand how to successfully install the *Corinex AV Phoneline Ethernet Bridge* to meet your networking needs. With the information in this manual, you should be able to:

- Analyze your network efficiency
- Plan the configuration of *Corinex AV Phoneline Ethernet Bridge* options
- Install and configure your *Corinex AV Phoneline Ethernet Bridge* according to your plan
- Verify and optimize your *Corinex AV Phoneline Ethernet Bridge’s* performance

2 Installation Guide

2.1 What this Package Contains

When you receive your *Corinex AV Phoneline Ethernet Bridge*, check to be sure that your package contains:

- Corinex AV Phoneline Ethernet Bridge
- AC power adapter
- Ethernet cable
- Telephone cable
- CD with documentation

We are constantly innovating our products. For the latest hardware/software changes, downloads and additional information on your device, please visit www.corinex.com.

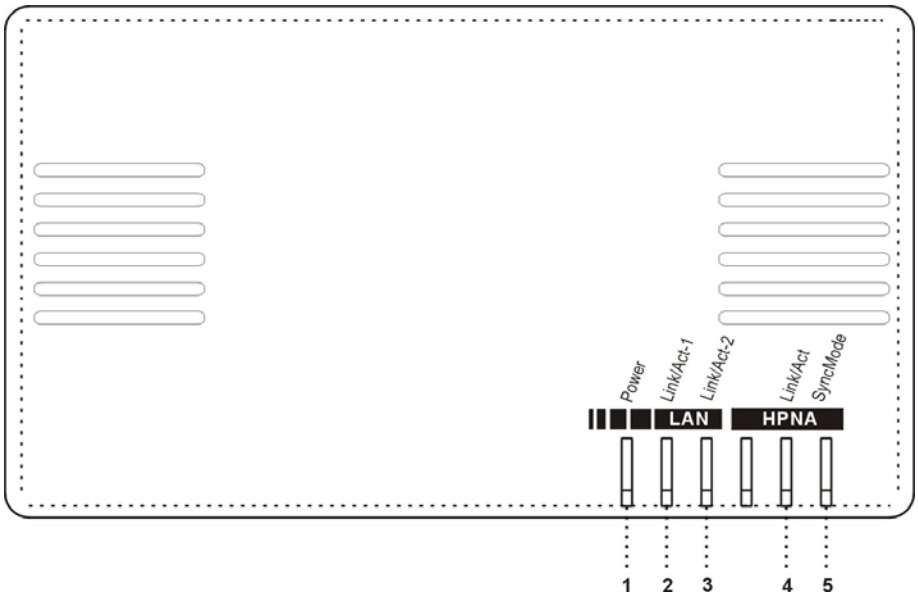
We also advise you to visit our Corinex Authorized Powerline Partners Program web page (cappp.corinex.com), as you can find there valuable information about complex applications and installations, along with the partners in your area, who are providing installation services.

2.2 System Requirements

- IBM compatible PC or a Macintosh
- One available 10/100 Mbps Ethernet port for connection
- CD-ROM drive (if you want to access the documentation on the CD)
- Windows 98/ME/2000/NT/XP, Mac OS X or Linux operating system

2.3 Front Panel Description

LED Definition



(LEDs from left to right)

POWER Green On: Power on
Off: Power off

Ethernet

Link/Act-1: Green On: Link on LAN1
Off: No Link on LAN1
Blinking: Receiving/transmitting data

Link/Act-2: Green On: Link on LAN2
Off: No Link on LAN2
Blinking: Receiving/transmitting data

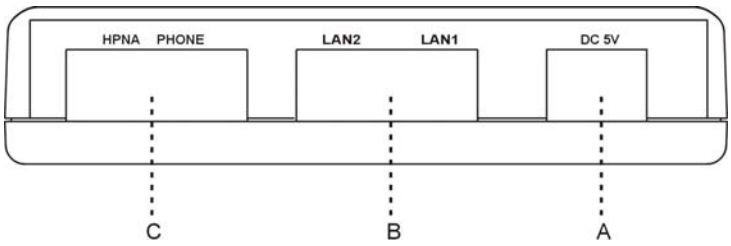
Phoneline

Link/Act: Green On: Link on Phoneline
Off: No Link on Phoneline
Blinking: Receiving/transmitting data

SyncMode: Green On: Synchronous Mode
Off : Asynchronous Mode

2.4 Rear Panel Description

Connectors Definition
(Connectors from left to right)



HPNA – RJ-11; Connects to another Corinex AV Phoneline device, or to the telephone socket in the wall.

Phone - RJ-11; Connects to a telephone or the phone port of an ADSL splitter.

LAN – 2x RJ-45; Connects to Ethernet port on FTTH/xDSL Modem or Switch for Internet Access.

Power inlet – 5V DC; connects to the AC power adapter.

2.5 Installing the AV Phoneline Ethernet Bridge

To connect the *Corinex AV Phoneline Ethernet Bridge* to your computer, follow the steps listed below.

1. Plug the supplied telephone cable to the HPNA port of your device and connect it to the phone jack on the wall. If there was a telephone connected to the phone jack on the wall, please connect it to the Phone port of the device.
2. Plug the supplied Ethernet cable to one of the LAN ports of your device and connect it to the Ethernet slot of your computer.
3. Connect the power adapter cable to the 5V DC power inlet of your device and plug the power adapter into an AC socket.

The *Corinex AV Phoneline Ethernet Bridge* is equipped with an automatic switch enabling an Ethernet slot or card on the computer to be connected to the adapter via a standard cable or to connect a cable/DSL modem via a cross-over cable to the adapter.

2.6 Testing the Setup

To verify that the connection is working correctly, use the standard **Ping** utility. In Windows, click on menu **Start** -> **Run**, then write the command **ping IPADDRESS -t**, where IPADDRESS is the IP address of the computer to which

the AV Phoneline Ethernet Bridge is connected to, e.g. **ping 192.168.4.1 -t** (This command will be stopped by pressing keys **CTRL+C**).

1. Ping the IP address of the computer to which the AV Phoneline Ethernet Bridge is connected. If this fails, there is a problem with the Ethernet network card or with the TCP/IP protocol.
2. Repeat the same process with the other computers on the Phoneline network.
3. If all nodes can ping themselves, try pinging another computer on the Phoneline network. If this fails, there is a problem with connections on the Phoneline. Try to check the connection to the phone wires network or use a different phone jack.
4. The Phoneline units can communicate only on the same physical phone line.

Sometimes, there are multiple phone lines in the premise, for example if you have a phone and a fax. If this is the case and you can get no connection between two Phoneline units, please check if they are connected to the same phone line. If you want to test which phone line the socket belongs to, you can connect a phone to the socket and try to dial a phone, where you can see the dialer's number, for example a cellular phone with activated CLIP service. If the numbers, when dialing from two different sockets, are not the same, it means that the sockets belong to different phone lines.

If the setup does not work, refer to the troubleshooting guide, but first, try unplugging the Phoneline device and reboot the computer as this sometimes fixes the problem.

3 User Guide

3.1 AV Phoneline Ethernet Bridge

The *Corinex AV Phoneline Ethernet Bridge* introduces a new and innovative solution for high speed communications, using the telephone wires within premises as a medium for communication. This unique technology offers users a wide range of networking options by using digital Phoneline technology enabling up to 128 Mbps of "traffic" between nodes within the network.

- Enables users to connect individual PCs or other devices with Ethernet communications links into a local area network through the telephone wires (Phoneline) network
- Enables PC file and application sharing
- Enables peripheral and printer sharing through the Phoneline network
- Enables shared broadband Internet access
- Enables sharing the bandwidth for multimedia payloads including voice, data, audio and video
- Enables gaming competition within the reach of the telephone wires network
- Eliminates the requirement for special data cable wiring
- A real cost-effective and reliable solution for high speed communications in any home or small office

You can combine this type of adapters with the full line of Corinex Phoneline products. This manual has been prepared for *Corinex AV Phoneline Ethernet Bridge* for use in combination with PCs or laptop computers.

3.2 AV Phoneline Ethernet Bridge Specifications

The following table lists the product specifications for the *Corinex AV Phoneline Ethernet Bridge.*

Standard compliance	IEEE802.3
	IEEE802.3u
	HomePNA 3.0
Ports	2 x RJ-11
	2 x RJ-45
Data rate	Up to 128 Mbps
Cabling type	Ethernet cable
	Telephone cable
LED status lights	POWER
	Link/Activity1 (Ethernet)
	Link/Activity2 (Ethernet)
	Link/Activity (Phoneline)
	SyncMode (Phoneline)
Unit dimensions	75mm L x 117mm W x 34mm H
Power	5V DC by supplied 110V (US) or 220V (Euro) AC
AC plug type	US, UK, Euro or AUS
Safety, EMI, PTT	USA: UL, FCC 15B, FCC 68
	Europe: CE
Operating temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 158°F (-20° to 70°C)
Operating Humidity	10% to 85% non-condensing
Storage Humidity	5% to 90% non-condensing

4 Troubleshooting Guide

The Bridge has been designed to be a reliable and easy to use network connection device. Please refer to the list below to aid in troubleshooting.

The POWER LED is off.

1. Verify the connection of the power cable to the device's power inlet.
2. Make sure that the power adapter is properly plugged into the electrical socket.
3. Try to use another socket.

The LAN (Ethernet) Link/Act LED is off.

1. Make sure that the Ethernet cable is correctly plugged into the Ethernet port.

2. The Ethernet-enabled device, to which the adapter is connected, should be powered on and properly configured.
3. Try to use another Ethernet cable.

The HPNA Link/Act LED is off.

1. Make sure that the phone cable is correctly plugged into the HPNA port.
2. The HPNA device, to which the adapter is connected, should be powered on and properly configured.
3. Try to use another phone cable.
4. Ensure that all devices, which should communicate, are on the same phone line.

If you still have trouble, please visit www.corinex.com and go to the appropriate section with the information to your product. You will find there news, manuals and software updates, as well as frequently asked questions (FAQ). If this doesn't help, you can contact the Corinex "help desk" by sending an e-mail to: support@corinex.com

- describing your problem
- reporting the devices types and manufacturing numbers of your network adapters